


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>UKAS TESTING 1650</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Scientific Analysis Laboratories Ltd</h3>	
	<p>Issue No: 027</p>	<p>Issue Date: 09 April 2010</p>
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS SEDIMENTS EFFLUENT POTABLE, SURFACE and GROUND WATER SAMPLING MEDIA FOODSTUFF	<p><u>Chemical Tests and Physical Tests</u></p> <p>Semi-Volatile Organic Compounds (SVOC) with boiling points between 180 – 550°C</p>	Methods developed and validated under a flexible scope according to In-House Method SOP 12 using GC-MS
SOIL	<p><u>Chemical Tests and Physical Tests</u></p> <p><u>Semi-Volatile Organic Compounds (SVOC)</u> 2,4-dinitrotoluene 2-methyl phenol 3-nitroaniline 4-chloroaniline 4-nitroaniline acenaphthylene carbazole dibutyl phthalate naphthalene phenanthrene. 1,2,4-trichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 2,4-dichlorophenol 2,6-dinitrotoluene 2-chlorophenol 2-chloronaphthalene 2-methyl naphthalene 2-nitroaniline 3/4 methyl phenol</p>	<p>Documented In-House Procedures</p> <p>In-House Method SOP 12E using GC-MS.</p>



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SOIL (cont'd)	<p><u>Chemical Tests and Physical Tests (cont'd)</u></p> <p>Metals, acid extractable: (cont'd) Titanium Vanadium</p> <p>Extractable Petroleum Hydrocarbons (EPH) C₁₀-C₄₀ Also banding, including: C₁₀-C₁₂, >C₁₂-C₁₆, >C₁₆-C₂₁, >C₂₁-C₃₅ And C₁₀-C₂₀, >C₂₀-C₃₀, >C₃₀-C₄₀</p> <p><u>VOC's</u> Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Dichloromethane MTBE (methyl-tert, butyl Ether) Trans-1,2-Dichloroethene 1,1-Dichloroethane Cis-1,2-Dichloroethene 2,2-Dichloropropane Chloroform Bromochloromethane 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon Tetrachloride 1,2-Dichloroethane Benzene 1,2-Dichloropropane Trichloroethene Bromodichloromethane Dibromomethane Cis-1,3-dichloropropene Toluene Trans-1,3-Dichloropropene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethane Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane</p>	<p>Documented In-House Procedures</p> <p>SOP259 Hotblock digestion followed by ICP-OES</p> <p>SOP 6 Microwave Solvent Extraction followed by GC-FID</p> <p>SOP12I using Headspace GC-MS</p>



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SOIL (cont'd)	<u>VOC's</u> Ethyl Benzene m,p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene Tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-Butylbenzene p-Isopropyltoluene 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene TAME (tert-amyl methyl ether) m/p-ethyl Toluene 2-ethyl Toluene	SOP12I using Headspace GC-MS
SOIL	<u>Chemical Tests and Physical Tests</u> Metals: Arsenic Cadmium Chromium Cobalt Copper Lead Nickel Zinc	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil SOP259 Hotblock digestion followed by ICP-OES



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SOIL (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil
	Cyanide (total/free/complex)	SOP256 Distillation followed by Colorimetry
	Loss on Ignition	SOP263 by Gravimetry
	Monohydric phenols	SOP257 Distillation followed by Colorimetry
	pH	SOP254 by pH Meter
	Sulphate, water soluble (2:1)	SOP260 by ICP-OES
	Total Sulphate	SOP259 by hotblock digestion and ICP-OES
	Total Sulphur	SOP259 using ICP-OES
	Thiocyanate	SOP251 by Colorimetry
	Extractable Petroleum Hydrocarbons (EPH) C ₁₀ -C ₄₀	SOP 6 Microwave Solvent Extraction followed by GC-FID
	Semi-Volatile Organic Compounds (SVOC) 1,2,4-trichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 2,4-dichlorophenol 2,6-dinitrotoluene 2-chlorophenol 2-chloronaphthalene 2-methyl naphthalene 2-nitroaniline 3/4 methyl phenol 4-bromophenyl phenyl ether 4-chloro, 3-methyl phenol 4-chlorophenylphenyl ether acenaphthene anthracene azobenzene	In-House Method SOP12E using GC-MS



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SOIL (cont'd)	<p><u>Chemical Tests and Physical Tests (cont'd)</u></p> <p><u>Semi-Volatile Organic Compounds (SVOC) (cont'd)</u> benzo (a) anthracene benzo(a) pyrene benzo(b) fluoranthene benzo(ghi) perylene (total benzo(b)fluoranthene and benzo(k) fluoranthene) bis (2-chloroisopropyl) ether bis (2-chloroethoxy) methane bis (2-chloroethyl) ether chrysene di-octyl phthalate dibenz(ah) anthracene dibenzofuran diethyl phthalate dimethyl phthalate fluorene hexachlorobenzene hexachlorobutadiene hexachloroethane indeno(123cd)pyrene isophorone nitrobenzene phenol</p> <p><u>VOC's</u> Vinyl Chloride Trichlorofluoromethane 1,1-Dichloroethene Dichloromethane MTBE (methyl-tert, butyl Ether) Trans- 1,2-Dichloroethene 1,1-Dichloroethane Cis-1,2-Dichloroethene 2,2-Dichloropropane Chloroform Bromochloromethane 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon Tetrachloride 1,2-Dichloroethane Benzene</p>	<p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil</p> <p>In-House Method SOP12E using GC-MS</p> <p>SOP12I using Headspace GC-MS</p>



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SOIL (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u> <u>VOC's</u> 1,2-Dichloropropane Trichloroethene Bromodichloromethane Dibromomethane Cis-1,3-dichloropropene Toluene Trans-1,3-Dichloropropene Tetrachloroethane Dibromochloromethane Chlorobenzene Ethyl Benzene m,p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene Tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-Butylbenzene p-Isopropyltoluene 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene 1,2,3-Trichlorobenzene TAME (tert-amyl methyl ether) m/p-ethyl Toluene 2-ethyl Toluene	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil SOP12I using Headspace GC-MS



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IMPINGERS, LEACHATES, WATERS, Raw and Potable	<u>Chemical Tests</u>	Documented In-House Procedures based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials', (MEWAM), referenced by the ISBN number and year. Any additional or alternative reference is identified. SOP262 by Ion Chromatography
	Anions Bromide Chloride Fluoride Nitrite Nitrate Sulphate	
LEACHATES, WATERS, Raw and Potable	Monohydric phenols	SOP257 Distillation followed by Colorimetry
	Thiocyanate	SOP251 by Colorimetry
WATERS Raw and potable waters	Alkalinity	SOP253 by Titrimetry
	Ammonia	SOP250 by Ion Selective Electrode
	Conductivity	SOP252 by Conductivity Meter
	Cyanide (total/free/complex)	SOP256 Distillation followed by Colorimetry
	Hardness, Total	SOP255 by Titrimetry
	Mercury	SOP 258 by CV-AAS
	<u>Metals:</u> Aluminium Antimony Arsenic Barium Beryllium Bismuth Cadmium Cobalt Chromium Copper Iron Lead	SOP259 by ICP-OES



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WATER (Cont'd) Groundwater	<p><u>Chemical Tests</u></p> <p><u>Polyaromatic hydrocarbons (PAHs) (Cont'd)</u> Dibenz(ah)anthracene Fluoranthrene Fluorene Indeno(123cd)pyrene Naphthalene Phenanthrene Pyrene</p> <p><u>SVOC's</u> Bis(2-chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene Nitrobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Bis(2-chloroisopropyl)ether Hexachloroethane Isophorone 2-Nitrophenol Bis(2-chloroethoxy)methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro, 3-methylphenol 2-Methylnaphthalene 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate 2,6-Dinitrotoluene Acenaphthylene Acenaphthene 3-Nitroaniline Dibenzofuran 2,4-Dinitrotoluene 4-Nitrophenol Diethylphthalate</p>	<p>Documented In-House Procedures based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials', (MEWAM), referenced by the ISBN number and year. Any additional or alternative reference is identified.</p> <p>SOP12A by GC-MS</p> <p>SOP12E by GC-MS</p>



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WATER (Cont'd) Groundwater	<u>Chemical Tests</u>	Documented In-House Procedures based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials', (MEWAM), referenced by the ISBN number and year. Any additional or alternative reference is identified.
	<u>SVOC's (cont'd)</u> Fluorene 4-Chlorophenylphenylether 4-Nitroaniline Azobenzene 4-Bromophenylphenylether Hexachlorobenzene Phenanthrene Anthracene Carbazole Dibutylphthalate Fluoranthrene Pyrene Butylbenzylphthalate Benzo(a)anthracene Chrysene Dioctylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(123cd)pyrene Dibenz(ah)anthracene Benzo(ghi)perylene	SOP12E by GC-MS
Potable water, Ground Water and prepared leachate	<u>VOC's</u> Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Dichloromethane MTBE (methyl-tert, butyl Ether) Trans-1,2-Dichloroethene 1,1-Dichloroethane Cis-1,2-Dichloroethene 2,2-Dichloropropane Chloroform Bromochloromethane 1,1,1-Trichloroethane	SOP12I by Headspace GC-MS



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<p>WATERS Raw and potable waters (cont'd)</p> <p>Potable water, Ground Water and prepared leachate</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>VOC's Bromochloromethane 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon Tetrachloride 1,2-Dichloroethane Benzene 1,2-Dichloropropane Trichloroethene Bromodichloromethane Dibromomethane Cis-1,3-dichloropropene Toluene Trans-1,3-Dichloropropene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethane Dibromochloromethane Chlorobenzene Ethyl Benzene m,p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene Tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-Butylbenzene p-Isopropyltoluene 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene 1,2,3-Trichlorobenzene TAME (tert-amyl methyl ether) m/p-ethyl Toluene 2-ethyl Toluene</p>	<p>SOP12I by Headspace GC-MS</p>

END